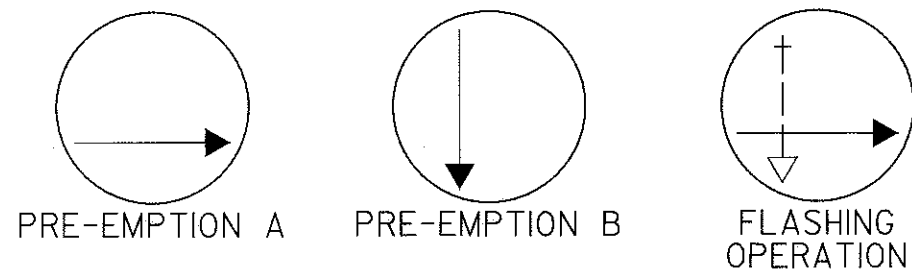
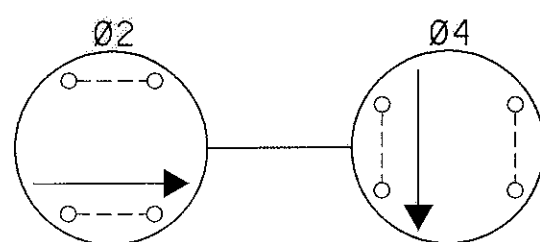


FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	STPG-218-1(7)E	23	66

PHASING DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2	G	G	R	R	W	W	W	W	DW	DW	DW	DW
2 PED CLEAR	G	G	R	R	FL DW	FL DW	FL DW	FL DW	DW	DW	DW	DW
2 CHANGE	Y	Y	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	G	G	DW	DW	DW	DW	W	W	W	W
4 PED CLEAR	R	R	G	G	DW	DW	DW	DW	FL DW	FL DW	FL DW	FL DW
4 CHANGE	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPTION A	G	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
CHANGE A	Y	Y	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PRE-EMPTION B	R	R	G	G	DW	DW	DW	DW	DW	DW	DW	DW
CHANGE B	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

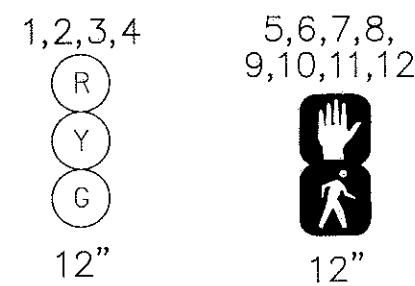
CONSTRUCTION DETAILS

- INSTALL 21' STEEL POLE, 32' MAST ARM, SIGNAL HEADS, OPTICOM DETECTOR, SIGNS AND PEDESTRIAN SIGNALS, AND 2" WEATHERHEAD (NOTE: 1-2", 90-DEGREE P.V.C. BEND).
- INSTALL 21' STEEL POLE, 24' MAST ARM, SIGNAL HEADS, OPTICOM DETECTOR, SIGNS AND PEDESTRIAN SIGNALS (NOTE: 1-2", 90-DEGREE P.V.C. BEND).
- INSTALL 10' STEEL PEDESTAL POLE AND PEDESTRIAN SIGNALS (NOTE: 1-2", 90-DEGREE P.V.C. BEND).
- INSTALL BASE MOUNTED CABINET, SIZE #5, AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN (NOTE: 2-4", 90-DEGREE P.V.C. BENDS; AND, 2-2", 90-DEGREE P.V.C. BENDS).
- INSTALL HANDHOLE.
- INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- INSTALL 3" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- INSTALL 2" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- REMOVE AND REPLACE EXISTING SIDEWALK.
- INSTALL GROUND MOUNTED SIGN.
- CONSTRUCT SIDEWALK RAMP.
- REMOVE EXISTING CROSSWALK LINES.
- INSTALL 12" SOLID WHITE LINE FOR CROSSWALKS.
- REMOVE EXISTING STOP BAR.
- INSTALL 24" SOLID WHITE LINE.
- REMOVE EXISTING SIGN(S) AND SIGN POST.
- REMOVE EXISTING CONTROLLER, CABINET, PEDESTAL POLE AND FOUNDATION.
- REMOVE EXISTING STEEL POLE, MAST ARM, SIGNALS, SIGNS, OPTICOM DETECTOR AND FOUNDATION.
- INSTALL 10' OF 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT-RISER AND COIL 25' OF ADDITIONAL CABLE.

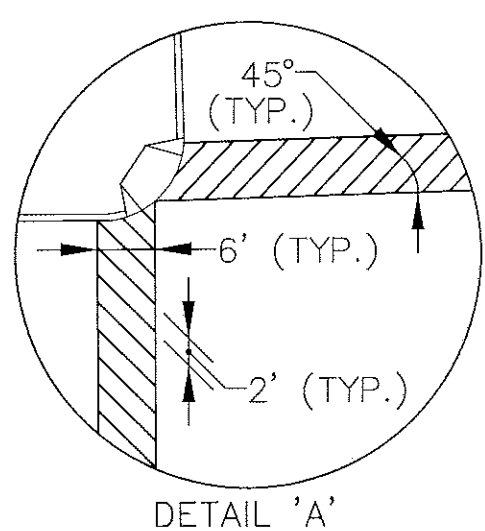
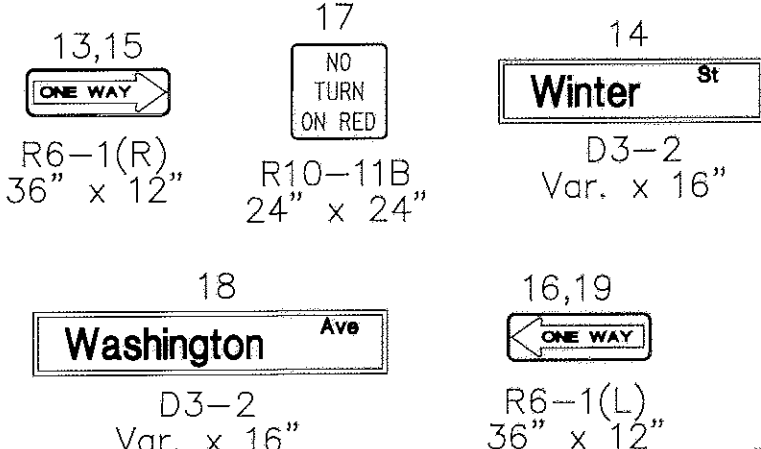
UTILITY LEGEND

— G —	G	GAS MAIN
— W —	W	WATER MAIN
— S —	S	SEWER MAIN
=====		STORM DRAIN
— TV —	TV	CABLE TELEVISION
— E —	E	ELECTRIC CABLES
— T —	T	TELEPHONE CABLES
— A —	A	AERIAL CABLES

SIGNALS

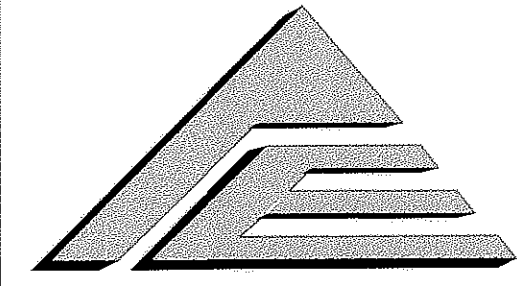


SIGNS



INTERSECTION DESCRIPTION

- GENERAL
THIS INTERSECTION IS U.S. 40 EAST (WASHINGTON AVENUE) AND WINTER STREET. CONSTRUCTION AT THIS INTERSECTION INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AND INTERCONNECTION WITH THE OTHER SIGNALIZED INTERSECTIONS IN THE NEW CITY-WIDE SYSTEM. IT IS ASSUMED THAT U.S. 40 EAST (WASHINGTON AVENUE) RUNS IN AN EAST-WEST DIRECTION.
- INTERSECTION OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA TWO (2) PHASE PRE-TIMED MODE. EASTBOUND U.S. 40 EAST (WASHINGTON AVENUE) AND SOUTHBOUND WINTER STREET WILL OPERATE IN SEPARATE PHASES. PEDESTRIAN SIGNALS WILL OPERATE CONCURRENTLY WITH THE EASTBOUND U.S. 40 EAST (WASHINGTON AVENUE) PHASE. PEDESTRIAN SIGNALS WILL OPERATE CONCURRENTLY WITH THE SOUTHBOUND WINTER STREET PHASE.
PRE-EMPTION ON EASTBOUND U.S. 40 EAST (WASHINGTON AVENUE) WILL CALL PRE-EMPTION A. PRE-EMPTION ON SOUTHBOUND WINTER STREET WILL CALL PRE-EMPTION B.
A NEW EIGHT PHASE FULLY ACTUATED CONTROLLER WITH TELEMETRY MODULE AND PRE-EMPTION HOUSED IN A GROUND MOUNTED CABINET WILL BE INSTALLED.



A/E GROUP, INC.
ENGINEERS • PLANNERS
181 E. Main Street
Westminster, Maryland 21158
A/E Job No. 95-289

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
9003	1	EA	SP	BASE MOUNTED LOCAL CABINET (SIZE 5) LESS DETECTION EQUIPMENT WITH 8 PHASE ASC II CONTROLLER WITH TELEMETRY AND OPTICOM PRE-EMPTION MODULE
9006/9007	38	SF	813	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 2 EACH R6-1L (36" X 12")-POLE MOUNT - 1 EACH R6-1R (36" X 12")-POLE MOUNT - 1 EACH R6-1R (36" X 12")-GROUND MOUNT - 1 EACH R10-11b (24" X 24")-MAST ARM MOUNT - 1 EACH D3-2 (Washington Ave) (VAR. X 16")-MAST ARM MOUNT - 1 EACH D3-2 (Winter St) (VAR. X 16")-MAST ARM MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
5	CY	205	TEST PIT EXCAVATION
10	CY	205	REMOVAL OF EXISTING SIDEWALK
625	LF	SP 555	12 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
70	LF	SP 555	24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
450	LF	SP	REMOVE EXISTING PAVEMENT MARKINGS-ANY WIDTH
750	SF	610	4 INCH CONCRETE SIDEWALK
1	EA	818	INSTALL CONTROLLER AND CABINET-BASE MOUNT

NOTE: ALL EQUIPMENT AND/OR MATERIALS TO BE REMOVED BY THE CONTRACTOR, BUT NOT LISTED BELOW, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

QUANTITY	UNIT	DESCRIPTION
1	EA	CONTROLLER AND CABINET
1	EA	PEDESTAL POLE AND BASE
1	EA	OPTICOM DETECTOR EYE

NOTE: EXISTING RIGHT-OF-WAY BASED ON MDSA PLAT NO. 14091

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

LOG M. 21E04035.38

DRAWN BY: T. COURVILLE

DES. BY: J. LAWRENCE

CHK. BY:

**US 40 East (Washington Ave.)
at Winter St.**

COUNTY: WASHINGTON

DATE: 05/30/97

F.A.P. NO.

STPG-218-1(7)E

TS

NO.

3686

SHEET NO.

23 OF 66

SCALE: 1" = 20'

S.H.A. NO.

WA9535185